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ARCHIMEDES

Biodegradable Pancreatobiliary Stent

CLINICAL SUMMARY

Biodegradable versus plastic pancreatic stents for preventing post-ERCP pancreatitis

A multicenter propensity score-adjusted study

Vasileios Galanakis ,Maria Moreno-Sanchez, Ioannis Braimakis, Athanasios Angelakis, Muhammad Tayyub, Murad Bayati, Shreya Chahure, Deepak Joshi, Noor L. H. Bekkali, Gareth Corbett

Cambridge University Hospitals NHS Foundation Trust | John Radcliffe Hospital | Oxford University Hospitals Foundation Trust | Bundeswehr University Munich | Amsterdam University Medical Centres | King's College Hospital NHS Foundation Trust



BIODEGRADABLE

CREATING VALUE BY HELPING PEOPLE

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Main Clinical Outcomes

Required a repeat endoscopy for stent removal (within 3 months)

0%	45.2%
ARCHIMEDES	Plastic stent

Post-ERCP pancreatitis (PEP) – comparable rates, no significant difference

7.3%	6.2%
7% (moderate/severe)	27% (moderate/severe)
ARCHIMEDES	Plastic stent

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What Eliminating Repeat Endoscopy Means

Quality of Life

REASONED EXTENSION

Radiation, sedation & travel avoided

Less burden on the patient: no follow-up X-ray, repeat sedation or return trip to hospital.

Cost Savings

REASONED EXTENSION · SEPARATE STUDY

AUD$393 / patient

Mean saving vs plastic stenting from repeat procedures avoided (McGarrigle et al. 2026).

Sustainability

REASONED EXTENSION · SEPARATE STUDY

~18 kg CO2e / patient

Less CO2e and less waste: no follow-up travel, imaging or retrieval endoscopy (Schneider et al. 2024).

Hospital Efficiency

REPEAT ENDOSCOPY MEASURED IN THIS STUDY

Stent tracking eliminated

No biodegradable-stent patient returned for repeat endoscopy for stent removal, vs 45.2% of the plastic group.

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ARCHIMEDES vs plastic pancreatic stents for the prevention of post-ERCP pancreatitis

Retrospective multicenter, propensity score-adjusted study



N = 355

ERCP patients

3 UK tertiary centers

Pancreatic stents

Plastic Stent

N = 177

5 Fr, 3-7 cm

ARCHIMEDES

N = 178

6 Fr, 4-6 cm

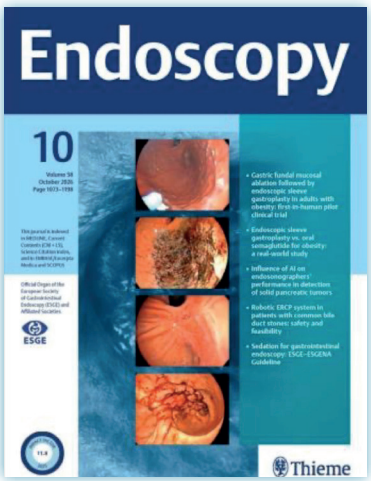
Outcomes

Outcome	Plastic Stent	ARCHIMEDES
Repeat endoscopy for stent removal	45.2%	0%
Post-ERCP pancreatitis	6.2%	7.3%
Bleeding	2.8%	2.2%
Infection	0.6%	1.7%
Perforation	4%	0.6%
Mortality with 3 months	5.6%	4.5%

- **Adoption is Easy** - Deployed the same way as a plastic stent
- **Logistical and Economic Benefit**
- **Significant Benefit** where repeat endoscopy is a burden
- **Pregnant** or **Paediatric** Patient Groups

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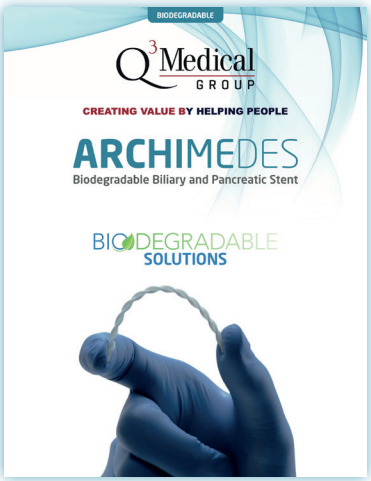


Thieme Endoscopy

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LINK TO FULL PUBLICATION HERE



ARCHIMEDES

Biodegradable Pancreatobiliary Stent

LINK TO ARCHIMEDES BROCHURE HERE

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